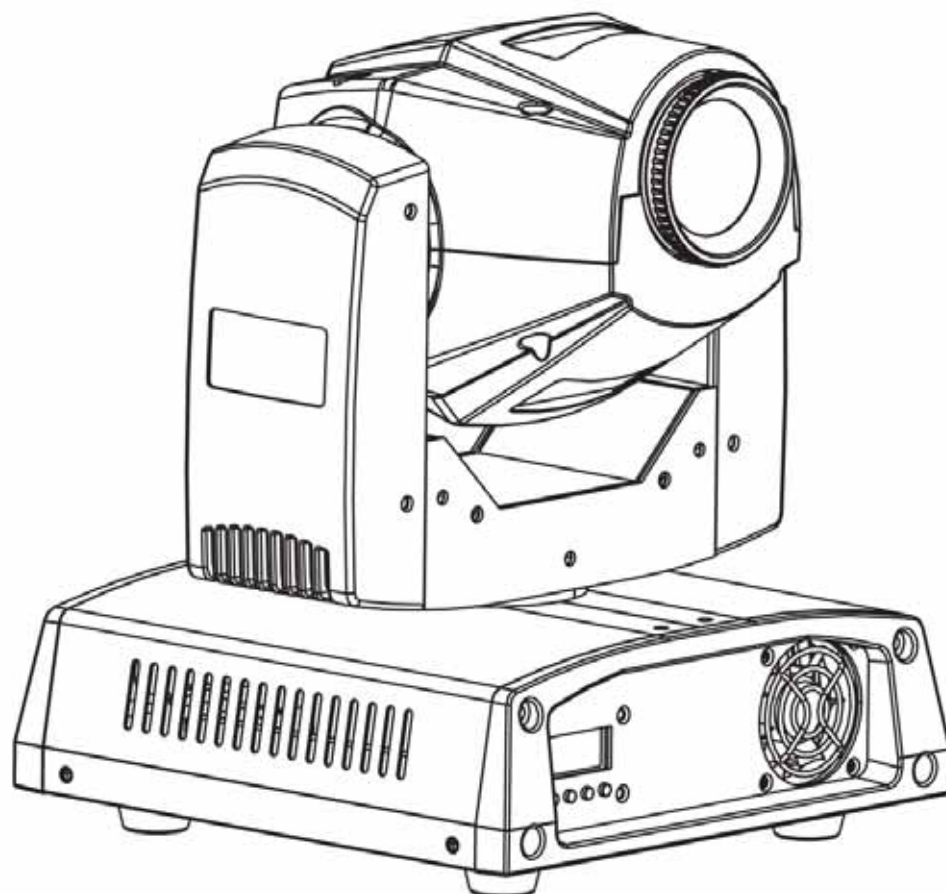


INTIMIDATOR™

SPOT LED 150



User Manual



CHAUVET®
Value • Innovation • Performance

It's Green Thinking

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Document Information

The information and specifications contained in this document are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions that may appear in this manual.

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1. BEFORE YOU BEGIN

What is Included

- 1 x Intimidator™ Spot LED 150
- 1 x Mounting bracket
- 2 x mounting bolts
- 1 x safety eyebolt
- 1 x Power Cord
- 1 x Warranty Card
- 1 x User Manual

Unpacking Instructions

Immediately upon receiving this product, carefully unpack it and check the container in which you received it. Make sure that you have received all the parts indicated above and that they are all in good condition. If the material inside the container (this product and any other accessory included with it) appears damaged from shipping, or if the container shows signs of mishandling, notify the shipper immediately. In addition, retain the container and all the packing material for inspection.

See the *Claims* section in the “*Technical Information*” chapter.

Text Conventions

Convention	Meaning
<Menu>	A key to be pressed on the fixture's control panel
1~512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified (for example, showing the operating mode/current status)
Menu > Settings	A sequence of menu options to be followed
ON	A value to be entered or selected

Icons

Icon	Meaning
	This paragraph contains critical installation, configuration, or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture, or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

Product at a Glance

Internal dimmer	✓	Auto Programs	✓
Outdoor Use	✗	Auto-ranging Power Supply	✓
Sound Activated	✓	Replaceable Fuse	✓
DMX	✓	User Serviceable	✗
Master/Slave	✓	Duty Cycle	✗

Safety Notes

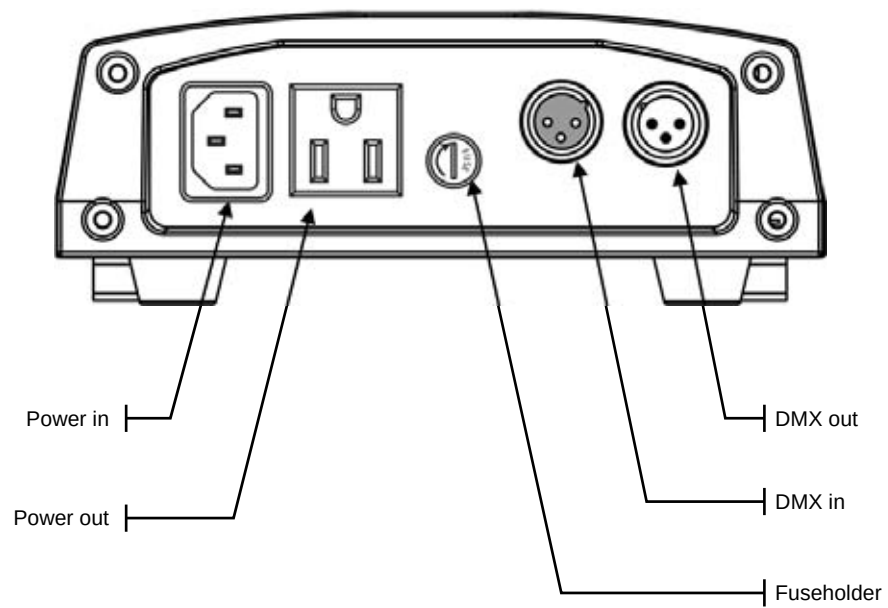


Please read the following notes carefully because they include important safety information about the installation, usage, and maintenance of this product.

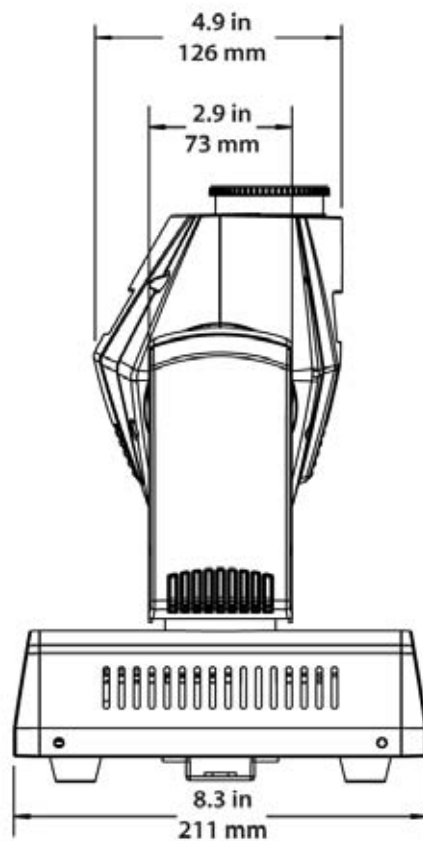
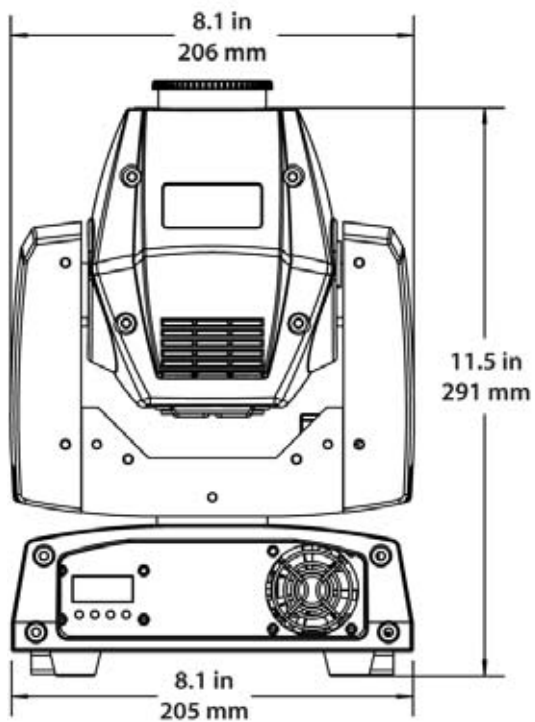
- Keep this User Manual for future consultation. If you sell this product to another user, be sure that they also receive this document.
- Always make sure that the voltage of the outlet to which you are connecting this product is within the range stated on the decal or rear panel of the fixture.
- This product is for indoor use only! To prevent risk of fire or shock, do not expose this fixture to rain or moisture.
- This product is for indoor use. Do not submerge this product.
- Make sure there are no flammable materials close to the unit while operating.
- Always install this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the unit's housing are blocked.
- Always disconnect this product from the power source before cleaning it or replacing the fuse.
- Make sure to replace the fuse with another of the same type and rating.
- If mounting this product overhead, always secure it to a fastening device using a safety cable.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the unit immediately.
- Never try to repair this product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Never connect this product to a dimmer pack.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Never carry a fixture from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- Always avoid direct eye exposure to the light source when this fixture is on.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power

This product has an auto-ranging power supply and it can work with an input voltage range of 100–240 VAC, 50/60 Hz.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating indicates its average current draw under normal conditions.



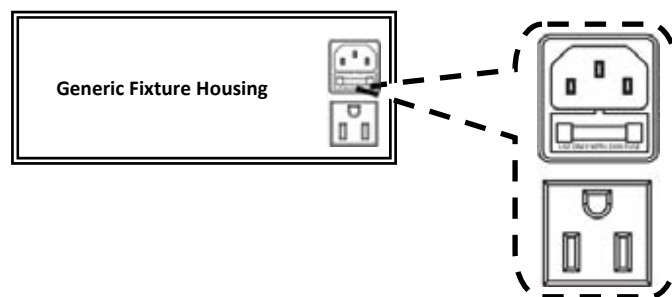
Always connect this product to a protected circuit (circuit breaker or fuse), making sure that it has an appropriate electrical ground to avoid the risk of electrocution or fire.



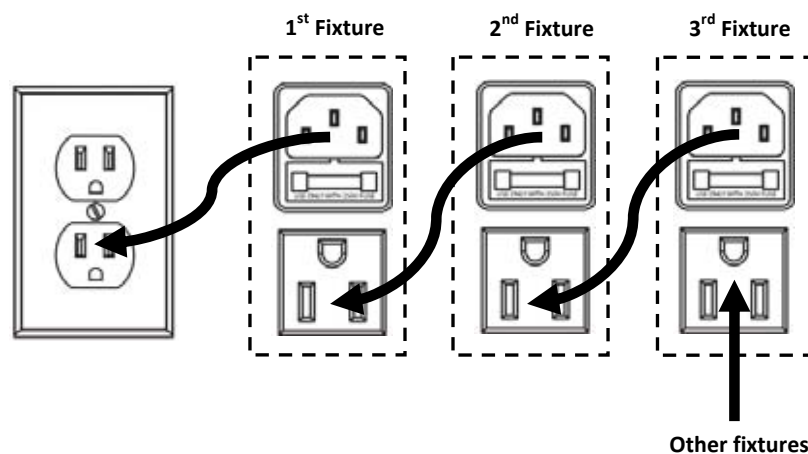
Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Power Linking

This fixture provides power linking via the Edison outlet located in the back of the unit. Please see the diagram below for further explanation.



Power Linking
Diagram



You can power link up to 11 Intimidator™ Spot LED 150 units on 120 VAC or up to 20 Intimidator™ Spot LED 150 units on 230 VAC.



The power linking diagram shown above corresponds to the North American version of this product ONLY! If using this product in other markets, you must consult with the local CHAUVET® distributor as power linking connectors and requirements may differ in your country or region.

Mounting

Orientation

The Intimidator™ Spot LED 150 may be mounted in any position, provided there is adequate room for ventilation around it.

Rigging

Be sure that the structure onto which you are mounting this product can support its weight. Please see the “Technical Specifications” section of this manual for weight information.

Make sure to mount the fixture securely to a rigging point, whether an elevated platform or a truss.

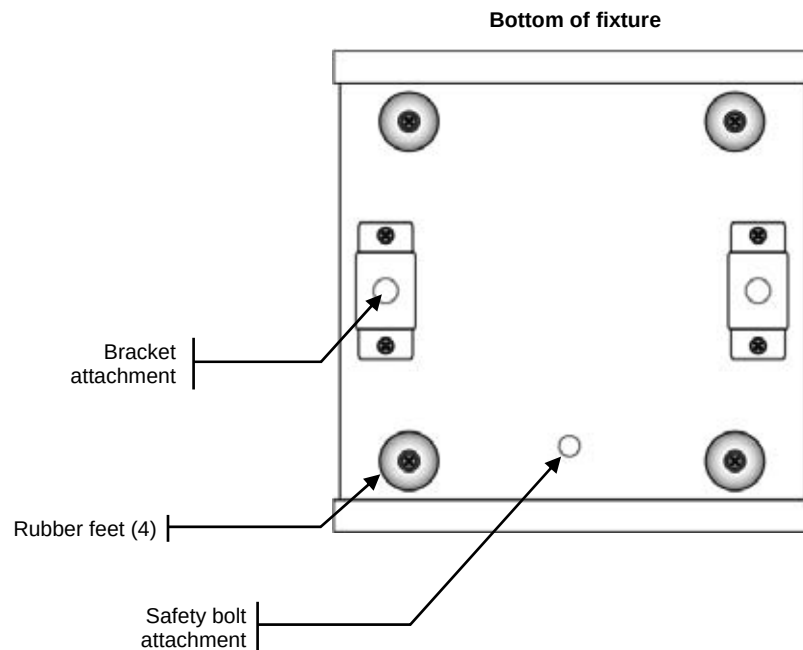
When rigging this product onto a truss, you should use a mounting clamp of appropriate weight capacity. The bracket has a 13 mm hole, which is appropriate for this purpose.

When mounting this product overhead, always use a safety cable.

Before deciding on a location for this product, always make sure that it will be easy to access the unit for maintenance and programming purposes.

When power linking multiple fixtures, you must always consider the length of the power linking cable and mount the fixtures close enough for the cable to reach them.

Mounting Diagram



4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display.

Button	Function
<MODE/ESC>	Press to find an operation mode or to back out of the current menu option
<UP>	Press to scroll down the list of options or to find a higher value
<DOWN>	Press to scroll up the list of options or to find a lower value
<ENTER>	Press to activate a menu option or a selected value



○ MODE/
ESC

○ UP

○ DOWN

○ ENTER

Menu Map

Mode	Programming Steps		Description
DMX Mode	d***	d001~512	Selects the DMX starting address
Operating Mode	NASL	SLoU	Automatic slow
	NAFA	FASt	Automatic fast
	NStS	SrUn	Sound-active mode
	SLAU	SonU	Slave mode
Pan Invert	Standard pan	PAN	Reverse the pan direction
	Inverted pan	rPAN	
Tilt Invert	Standard tilt	tit	Reverse the tilt direction
	Inverted tilt	rtit	
Display Invert	Standard display	dis	Use this function for hanging the product upside down
	Inverted display	rdis	
Personality	Advanced	11CH	Select the DMX personality
	Basic	6CH	
Pan Range	Pan 540°	PA54	Select the maximum pan range
	Pan 360°	PA36	
	Pan 180°	PA18	
Tilt Range	Tilt 270°	ti27	Select the maximum tilt range
	Tilt 180°	ti18	
	Tilt 90°	ti 9	
Reset	System reset	rESt	Reset all motors
Load Factory Defaults	Load default	LoAd	Use this to revert all settings for the fixture back to the factory-defaults values

Menu Map (hidden)

This fixture has a hidden menu. The purpose of this menu is to adjust the home position (electronic adjustment) of the attributes listed below.

Mode	Programming Steps		Description
<i>Pan adjustment</i>	<i>P***</i>	P000~255	Adjust the pan home position
<i>Tilt adjustment</i>	<i>t***</i>	t000~255	Adjust the tilt home position
<i>Gobo wheel adjustment</i>	<i>G***</i>	G000~255	Adjust the gobo wheel home position
<i>Color wheel adjustment</i>	<i>C***</i>	C000~255	Adjust the color wheel home position
<i>LED dimmer threshold</i>	<i>d***</i>	d000~255	Adjust the LED dimming threshold (minimum)

Accessing the hidden menu

- 1) Press and hold **<MODE/ESC>** for at least 10 seconds.
- 2) Use **<UP>** or **<DOWN>** to input the following access code: **2323**.
- 3) Press **<ENTER>**.

Configuration (DMX)

Set this product in DMX mode to control it with a DMX controller.

- 1) Connect this product to a suitable power outlet.
- 2) Turn this product on.
- 3) Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket of this product.

Starting Address

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the fixture's channels.

The Intimidator™ Spot LED 150 uses up to 11 DMX channels in the advanced personality, which defines the highest configurable address to 502.

If you are not familiar with the DMX protocol, you may refer to the “DMX Primer” section in the *“Technical Information”* chapter.

To select the starting address, do the following:

- 1) Press **<MODE/ESC>** repeatedly until **d***** shows on the display.
- 2) Press **<ENTER>**.
- 3) Use **<UP>** or **<DOWN>** to select the starting address.
- 4) Press **<ENTER>**.

Configuration (Standalone Modes)

Set this product in one of the standalone modes to control it without a DMX controller.

- 1) Connect this product to a suitable power outlet.
- 2) Turn this product on.

Sound Active Mode

To enable the Sound Active mode, do the following:

- 1) Press **<MODE/ESC>** repeatedly until one of the following shows on the display:
NASL, NAFA, NStS, SLAU.
- 2) Use **<UP>** or **<DOWN>** to select **NStS**.
- 3) Turn the music on.
- 4) Press **<ENTER>**.



The fixture will only respond to the low frequencies of the music (bass and drums).

Automatic Mode



Never connect a fixture that is operating in any standalone mode, whether Static, Automatic, or Sound to a DMX string connected to a DMX controller. This is because fixtures in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

To enable the Automatic Mode, follow the instructions below:

- 1) Press **<MODE/ESC>** repeatedly until one of the following shows on the display:
NASL, NAFA, NStS, SLAU.
- 2) Use **<UP>** or **<DOWN>** to select **NAFA** (fast) or **NASL** (slow).
- 4) Press **<ENTER>**.

Master/Slave Mode

This mode allows a single Intimidator™ Spot LED 150 unit (the “master”) to control the actions of one or more Intimidator™ Spot LED 150 units (the “slaves”) without the need of a DMX controller. The master unit will be set to operate in either Automatic or Sound Active mode, while the slave units will be set to operate in Slave Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

- 1) Press **<MODE/ESC>** repeatedly until one of the following shows on the display:
NASL, NAFA, NStS, SLAU.
- 2) Press **<ENTER>** to accept.
- 3) Set the DMX address to “001”, as previously explained.
- 5) Connect the DMX input of the first slave unit to the DMX output of the master unit.
- 6) Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
- 7) Finish setting and connecting all the slave units.

Master unit:

- 1) Set the master unit to operate in either Automatic or Sound mode, as previously indicated.
- 2) Make the master unit the first unit in the DMX daisy chain.



- ***Configure all the slave units before connecting the master unit to the DMX daisy chain.***
- ***Never connect a DMX controller to a DMX string configured for Master/Slave operation because it may interfere with the signals from the master unit.***
- ***Do not connect more than 31 slave units to the master unit.***

DMX Channel Assignments and Values

11-CH

Channel	Function	Value	Setting
1	Pan	000 ⇔ 255	0~540°
2	Tilt	000 ⇔ 255	0~270°
3	Pan fine	000 ⇔ 255	0~3°
4	Tilt fine	000 ⇔ 255	0~3°
5	Pan/tilt speed	000 ⇔ 255	Fast~slow
6	Color	000 ⇔ 005 Open (white) 006 ⇔ 011 1 (yellow) 012 ⇔ 017 2 (magenta) 018 ⇔ 023 3 (green) 024 ⇔ 029 4 (red) 030 ⇔ 035 5 (cyan) 036 ⇔ 041 6 (orange) 042 ⇔ 047 7 (blue) 048 ⇔ 053 8 (light green) 054 ⇔ 063 9 (light red) 064 ⇔ 069 White/yellow (split colors) 070 ⇔ 075 Yellow/magenta (split colors) 076 ⇔ 081 Magenta/green (split colors) 082 ⇔ 087 Green/red (split colors) 088 ⇔ 093 Red/cyan (split colors) 094 ⇔ 099 Cyan/orange (split colors) 100 ⇔ 105 Orange/blue (split colors) 106 ⇔ 111 Blue/light green (split colors) 112 ⇔ 117 Light green/light red (split colors) 118 ⇔ 127 Light red/white (split colors) 128 ⇔ 191 Rotate clockwise (slow~fast) 192 ⇔ 255 Rotate counter-clockwise (slow~fast)	
7	Shutter	000 ⇔ 003 Blackout 004 ⇔ 007 Open 008 ⇔ 215 Strobe (0.5~20 Hz) 216 ⇔ 255 Open	
8	Dimmer	000 ⇔ 255	0~100%
9	Gobo	000 ⇔ 005 Open 006 ⇔ 011 Gobo 1 012 ⇔ 017 Gobo 2 018 ⇔ 023 Gobo 3 024 ⇔ 029 Gobo 4 030 ⇔ 035 Gobo 5 036 ⇔ 041 Gobo 6 042 ⇔ 047 Gobo 7 048 ⇔ 053 Gobo 8 054 ⇔ 063 Gobo 9 064 ⇔ 073 Gobo 1 (gobo shake) 074 ⇔ 079 Gobo 2 (gobo shake) 080 ⇔ 085 Gobo 3 (gobo shake) 086 ⇔ 091 Gobo 4 (gobo shake) 092 ⇔ 097 Gobo 5 (gobo shake) 098 ⇔ 103 Gobo 6 (gobo shake) 104 ⇔ 109 Gobo 7 (gobo shake) 110 ⇔ 115 Gobo 8 (gobo shake) 116 ⇔ 121 Gobo 9 (gobo shake) 122 ⇔ 127 Open 128 ⇔ 191 Rotate clockwise (slow~fast) 192 ⇔ 255 Rotate counter-clockwise (slow~fast)	
10	Control	000 ⇔ 007 No function 008 ⇔ 027 Enable pan/tilt move-in-black 028 ⇔ 047 Enable gobo move-in-black 048 ⇔ 067 Disable pan/tilt/gobo move-in-black 068 ⇔ 087 Enable color move-in-black 088 ⇔ 107 Disable pan/tilt/color move-in-black 108 ⇔ 127 Disable gobo/color move-in-black 128 ⇔ 147 Disable pan/tilt/gobo/color move-in-black 148 ⇔ 167 Reset pan 168 ⇔ 187 Reset tilt 188 ⇔ 207 Reset color 208 ⇔ 227 Reset gobo 228 ⇔ 247 Reset all 248 ⇔ 255 No function	
11	Pan/tilt Movement macros	000 ⇔ 007 No function 008 ⇔ 023 Automatic movement 1 024 ⇔ 039 Automatic movement 2 040 ⇔ 055 Automatic movement 3 056 ⇔ 071 Automatic movement 4	

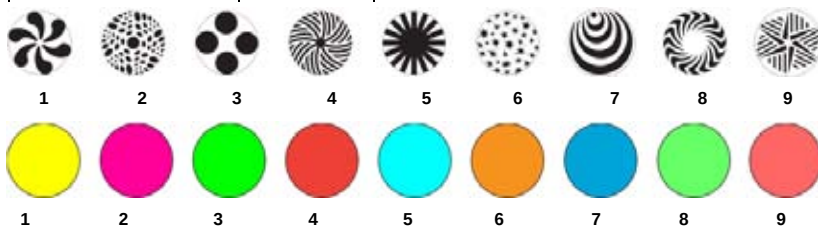
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Channel	Function	Value	Setting
11	Pan/tilt Movement macros	072 ⇄ 087 088 ⇄ 103 104 ⇄ 119 120 ⇄ 135 136 ⇄ 151 152 ⇄ 167 168 ⇄ 183 184 ⇄ 199 200 ⇄ 215 216 ⇄ 231 232 ⇄ 247 248 ⇄ 255	Automatic movement 5 Automatic movement 6 Automatic movement 7 Automatic movement 8 Sound-active movement 1 Sound-active movement 2 Sound-active movement 3 Sound-active movement 4 Sound-active movement 5 Sound-active movement 6 Sound-active movement 7 Sound-active movement 8

6-CH

Channel	Function	Value	Setting
1	Pan	000 ⇄ 255	0~540°
2	Tilt	000 ⇄ 255	0~270°
3	Color	000 ⇄ 005 006 ⇄ 011 012 ⇄ 017 018 ⇄ 023 024 ⇄ 029 030 ⇄ 035 036 ⇄ 041 042 ⇄ 047 048 ⇄ 053 054 ⇄ 063 064 ⇄ 069 070 ⇄ 075 076 ⇄ 081 082 ⇄ 087 088 ⇄ 093 094 ⇄ 099 100 ⇄ 105 106 ⇄ 111 112 ⇄ 117 118 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Open (white) 1 (yellow) 2 (magenta) 3 (green) 4 (red) 5 (cyan) 6 (orange) 7 (blue) 8 (light green) 9 (light red) White/yellow (split colors) Yellow/magenta (split colors) Magenta/green (split colors) Green/red (split colors) Red/cyan (split colors) Cyan/orange (split colors) Orange/blue (split colors) Blue/light green (split colors) Light green/light red (split colors) Light red/white (split colors) Rotate clockwise (slow~fast) Rotate counter-clockwise (slow~fast)
4	Shutter	000 ⇄ 003 004 ⇄ 007 008 ⇄ 215 216 ⇄ 255	Blackout Open Strobe (0.5~20 Hz) Open
5	Dimmer	000 ⇄ 255	0~100%
6	Gobo	000 ⇄ 005 006 ⇄ 011 012 ⇄ 017 018 ⇄ 023 024 ⇄ 029 030 ⇄ 035 036 ⇄ 041 042 ⇄ 047 048 ⇄ 053 054 ⇄ 063 064 ⇄ 073 074 ⇄ 079 080 ⇄ 085 086 ⇄ 091 092 ⇄ 097 098 ⇄ 103 104 ⇄ 109 110 ⇄ 115 116 ⇄ 121 122 ⇄ 127 128 ⇄ 191 192 ⇄ 255	Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 1 (gobo shake) Gobo 2 (gobo shake) Gobo 3 (gobo shake) Gobo 4 (gobo shake) Gobo 5 (gobo shake) Gobo 6 (gobo shake) Gobo 7 (gobo shake) Gobo 8 (gobo shake) Gobo 9 (gobo shake) Open Rotate clockwise (slow~fast) Rotate counter-clockwise (slow~fast)



5. TECHNICAL INFORMATION

General Maintenance

Dust build up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, you should clean your lighting fixtures at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean this fixture, follow the instructions below:

- Unplug the fixture from power.
- Wait until the fixture is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
- Clean all external optics with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
- Softly drag any dirt or grime to the outside of the external optics.
- Gently polish the external optics until they are free of haze and lint.



Always dry the external optics carefully after cleaning them.



Do not spin the cooling fans using compressed air because you could damage them.

General Troubleshooting

Symptom	Possible Cause	Possible Action
Circuit breaker or fuse keeps blowing	• Excessive load on the circuit	• Make sure that the total load does not exceed 80% of the breaker or fuse nominal current
	• Short circuit along the power lines	• Check the power lines and power cords
Product does not power up	• No energy on power outlet	• Check power outlet • Change to another outlet
	• Loose or damaged power cord	• Check the power cord
	• Blown fuse	• Replace blown fuse with a good one of the same type and rating
	• Internal problem	• Send product for repair
Fixture does not respond to DMX	• Wrong starting address on the fixture	• Set the correct starting address on the fixture • Use the right fader(s) on the controller
	• Wrong DMX personality on the fixture	• Set the correct DMX fixture's personality • Assign the faders accordingly
	• Wrong operating mode set on the fixture	• Change the fixture settings
	• Loose or damaged DMX cable	• Check the DMX cable before the faulty unit
	• Internal problem	• Send product for repair
Intermittent DMX Problems	• Signal cables are not DMX compatible	• Replace non DMX cables with true DMX cables
	• Interference with AC or radio signals	• Keep DMX cables away from AC wires or radio equipment
	• DMX cable too long	• Install an optically coupled DMX amplifier right before the fixture with intermittent problems
	• Too many fixtures connected	• Install an optically coupled DMX amplifier after unit #32
	• Terminator not connected	• Install a terminator, as indicated in the "DMX Primer" section.



If you still experience problems after trying the above solutions, contact CHAUVET® Technical Support.

Returns Procedure

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization Number (RMA #) before shipping the fixture. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

The user must clearly label the package with a Return Merchandise Authorization Number (RMA #). CHAUVET® will refuse any product returned without an RMA #.



DO NOT write the RMA # directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA #, please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the problem

Be sure to pack the fixture properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.



CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Claims

The carrier is responsible for any damage incurred during shipping to this product or any part that shipped with it. Therefore, if the received merchandise appears to have damages caused during shipping, the customer must submit the damage report and any related claims with the carrier, not CHAUVET®. The customer must submit the report upon reception of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to CHAUVET® within seven (7) days of receiving the merchandise.

Contact Information

World Headquarters

CHAUVET®

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World Wide Web

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DMX Primer

The USITT DMX512-A data transmission protocol (DMX, from now on) is based on the EIA-485 standard and it has 512 channels (001 to 512). This system requires a controller (DMX controller), one or more DMX compatible fixtures, and a DMX circuit (also known as “DMX universe”) to link the fixtures to the controller.

Depending on their complexity and features, DMX compatible fixtures may require from one to more than 30 DMX channels to operate. Some DMX fixtures have multiple operation modes (also known as “personalities”), each with its own number of channels and controllable parameters.

Starting Address

In the DMX system, the controller sends DMX data to each fixture based on the fixture's starting address. The starting address is the number of the DMX channel (001 to 512) assigned to the fixture's first control channel (Channel 1). When assigning starting addresses to multiple fixtures, it is critical to ensure that no starting address is already in use by another fixture to prevent channels from overlapping. Otherwise, the affected fixtures may operate erratically.

For instance, a user has two DMX compatible fixtures. Fixture “A” has four channels and fixture “B” has six channels. If the user configures the starting address of fixture “A” to “001”, channels 001 through 004 on the DMX controller will control fixture “A”. This means that the user should assign the starting address of fixture “B” to “005” or higher. For a starting address of “005”, the DMX controller would use channels 005 to 010 to control fixture “B”.

It is possible to control multiple fixtures of the same type by assigning each one of them the same starting address. In this case, all the fixtures would respond in unison (synchronized) to the signals from the DMX controller.

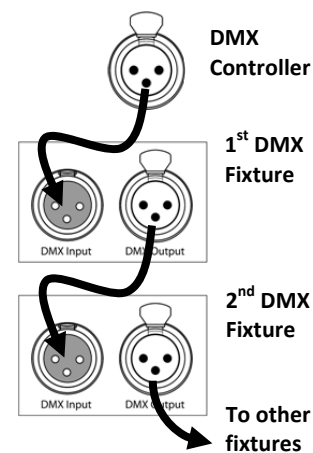
Fixture Linking (Daisy Chain)

DMX compatible fixtures receive the control signals from the DMX controller through the DMX cables. Each fixture has a DMX In and a DMX Out connector. The figure to the right illustrates how the fixtures link to each other using multiple segments of DMX cable in a sequential format called “daisy chain”.

The order in which the fixtures connect to the DMX controller is irrelevant because all fixtures receive the same DMX signals and they only respond to them based on their individual starting addresses. However, it is important to notice that the connections between fixtures should always be as short and direct as possible.

To ensure the integrity of the DMX signal, follow the recommendations of the EIA-485 standard:

- The maximum recommended cable length is 500 m (1,640 feet).
- The maximum recommended number of fixtures on the same daisy chain is 32.



Connecting more than 32 fixtures on one daisy chain without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

DMX Cabling

The DMX protocol requires using special data cables to accommodate for the high speed digital signals it uses. Despite their apparent similarities, data cables are electrically different from standard microphone cables because they can carry high frequency digital signals and have better protection against electromagnetic interference. You can purchase CHAUVET® certified DMX cables directly from a dealer/distributor or make your own DMX cable.

If you choose to make your own DMX cable, you must use a data-grade cable such as the Belden 9841, which has the following electrical characteristics:

Type:	shielded, 2-conductor twisted pair
Maximum capacitance between conductors:	30 pF/ft
Maximum capacitance between conductor and shield:	55 pF/ft
Maximum resistance:	20 ohms/1000 ft
Nominal impedance:	100~140 ohms

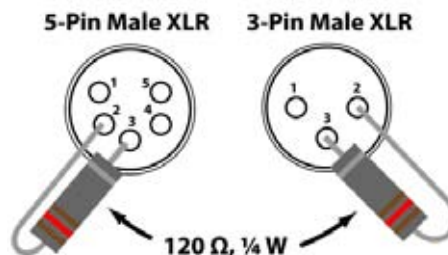
DMX Connectors

Each DMX cable must have a male XLR connector on one end and a female XLR connector on the other end. The DMX protocol indicates that the XLR connectors must have five pins. However, most lighting fixtures use the 3-pin XLR connector. The pin assignment of the 3-pin and 5-pin XLR connectors in a DMX cable is as follows:

Male Plug				Female Plug			
Signal	3-Pin	5-Pin		5-Pin	3-Pin	Signal	
Common	1	1		1	1	Common	
Data -	2	2		2	2	Data -	
Data +	3	3		3	3	Data +	
Not used		4		4		Not used	
Not used		5		5		Not used	

You can use the above table to create a 3-pin/3-pin cable, a 5-pin/5-pin cable, or a 3-pin to 5-pin adapter.

The DMX daisy chain uses a terminator to reduce signal transmission problems, especially with long cables. The terminator consists of either a 3-pin or 5-pin XLR male plug with a 120 Ω , ¼ W resistor connected to the wire side of pins 2 and 3, as shown below.



The terminator plug connects to the DMX Out socket of the last DMX fixture in the daisy chain.



Do not allow the common wire of the DMX cable to touch the fixture's chassis ground. This could cause a ground loop, which may affect your fixtures' performance. Test all DMX cables with an ohmmeter to verify the correct polarity of the wires, and to make sure that they are not touching the shield or each other.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
8.1 in (205 mm)	8.3 in (211 mm)	11.5 in (291 mm)	9.3 lbs (4.2 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz (Europe only)
Consumption	54 W (0.7 A)	91 W (0.4 A)

Power I/O	Input	Output
Connectors	IEC	Edison
Cord plug	Edison	N/A

Light Source

Type	Power	Lifespan
LED	15 W	50,000 hours

Color	Quantity	LED Drive Current
White	1	3.6 mA

Photo Optic

Parameter	Narrow Lenses
Illuminance @ 1 m	14,200 lux
Illuminance @ 2 m	2,714 lux
Beam angle	15°

Thermal

Maximum External Temp.	Cooling System
104° F (40° C)	Fan cooled

DMX

I/O Connectors	Connector Type	Channel Range
3-pin XLR	Sockets	6, 11

Ordering

Item No.	Item Name	Item Code
INTIMSPOTLED150	Intimidator™ Spot LED 150	08010176

